WORLD HEALTH ORGANIZATION

ORGANISATION MONDIALE DE LA SANTÉ

Country Liberia

INTER-REGIONAL SEMINAR ON SMALLPOX ERADICATION

Lagos, Nigeria, 13-20 May 1969

COUNTRY REPORT

1.0 DEMOGRAPHIC DATA

1.1 Estimated population (July 1969)

Age	
0-4	181 920
5-14	233 592
15-44	520 286
45+	182 289
TOTAL	1 118 087

1.2 Population by geographic subdivision (Table 1)

1.3 Population density by geographic subdivision (Table 1)

1.4 Population density by geographic subdivision (Figure 1)

2.0 SMALLPOX INCIDENCE AND VACCINATION DATA

2.1 Smallpox cases by month and geographic subdivision - Jan. 1968 - Feb. 1969 (Table 2)

2.2 Location of smallpox outbreaks.

Oct. 68 - Dec. 68 (Figure 2)

Jan. 69 - Feb. 69 (Figure 3)

2.3 Incidence rates per 100 000 population by geographic subdivision and by quarter.

Jan. 68 - Mar. 68 (Figure 4)

Apr. 68 - Jun. 68 (Figure 5)

Jul. 68 - Sep. 68 (Figure 6)

Oct. 68 - Dec. 68 (Figure 7)

Jan. 69 - Feb. 69 (Figure 8)

2.4 Monthly distribution of smallpox cases by age and sex - Jan. 1969 - Feb. 1969 (Table 3)

2.5 Smallpox vaccinations performed by quarter and geographic subdivision - January 1968 through February 1969 (Table 4)

2.6 Areas vaccinated since inception of the programme (Figure 9)

2.7 Smallpox vaccination targets by geographic subdivision - July 1969 through June 1970 (Table 5)

2.8 Method for recording of vaccinations:

Tally sheet: Yes [X] No [ ]

Other registry system (specify) -

2.9 Youngest age for beginning smallpox vaccination:

Birth [X] 6 months [ ] Other _____

3.0 MEASLES INCIDENCE AND VACCINATION DATA (for countries engaged in measles vaccination programmes)

3.1 Reported measles cases by month and geographic subdivision (Table 6)

3.2 Measles immunizations by quarter and geographic subdivision (Table 7)

3.3 Areas vaccinated against measles since inception of the programme and areas where maintenance vaccination programmes have been initiated (Figure 10)

4.0 NUMBER OF PERSONNEL ENGAGED IN VACCINATION PROGRAMME

4.1 Vaccinators:

Regular teams	12	
Maintenance teams	-	
Other (Specify)	2	Reserve team
TOTAL	14	

Other field staff, including recorders, drivers, etc. 20

Supervisory personnel (paramedical) 9

4.2 Number of vaccinators directly supervised by one superviser 4

4.3 Average number of vaccinations performed daily by each team:

Regular teams 377

Maintenance teams -

Other (specify) -

5.0 PROGRAMME EXECUTION

5.1 Supervision

5.1.1 Proportion of time spent in field by supervisory staff and technical advisory staff checking directly on the work of vaccinators and assessors and lower level supervisors:

By country staff reviewing work of - Vaccination team: - days per mo.

Other levels: - days per mo.

By advisory staff reviewing work of - Vaccination team: 6 days per mo.

Other levels: 6 days per mo.

5.1.2 Measures taken when vaccinator or assessor performance is unsatisfactory

Reprimand

5.2 Assessment

5.2.1 Vaccine "take rates"

Proportion of primary vaccinations in 0-4 year old children which are checked after seven days to determine takes 12%

Steps taken when the proportion of successful primary vaccination falls below 95% Investigate

5.2.2 Vaccination coverage:

Number of vaccinations performed in each area are compared with the population estimate for the area (e.g. village register, census, etc.)

Yes [X] No [ ]

5.2.3 Assessment of coverage:

An assessment of coverage is regularly performed in a sample of the population

Yes [X] No [ ]

Level of coverage in the 0-4 and 5-14 year age group which is considered acceptable

85% [ ] 80% [X] Other _____

Proportion of assessment surveys which fall below the level noted above.

5 %.

Steps taken if the coverage is not acceptable (i.e. revaccinate the area etc.) Revaccinate the area

Changes which have been made in the programme as a direct result of assessment Teams have been divided, thus enabling them to stay longer in each village and reach smaller (1-35 population) villages.

5.3 Surveillance

5.3.1 Notification of smallpox cases:

Number of sites which could report smallpox cases (e.g. hospitals, health centres, health posts, dispensaries) 211

Frequency of reporting:

Immediate ☐ Weekly ☐ Other Nil

Number of reports: Expected in 1968 _____

Received in 1968 _____

% received _____

Negative reporting is generally practised: Yes ☐ No ☒

Other specialized programmes which report cases

-

Other persons or groups who have been requested to notify cases

-

Proportion of cases for which age, sex, and vaccination status are recorded

- %

Best estimate of the percentage of cases which are reported:

	January 1967	February 1969
More than 90%		
75-89%		
50-74%		
Less than 50%		

5.3.2 Case investigation and containment measures:

Number of case investigation/containment ('fire-fighting') teams which have been established _____

These teams are: Centralized ☐ Decentralized ☐

If decentralized, to what extent _____

Proportion of cases, since October 1968, in which containment action was taken within 48 hours after notification _____%

Proportion of outbreaks, since October 1968, routinely investigated to determine the origin of infection _____%

Of the investigations noted above, the percentage of outbreaks where the origin was not ascertained _____%

6.0 COMMODITIES

6.1 Vaccine use:

	Year	Col. 1 Number of Doses Recd.	Col. 2 Number of Doses in Inventory	Col. 3 Number of Doses Used (Col.1-Col.2)	Col. 4 Number of Vacc. performed	Reasons for Difference between Col.3 and Col.4
Smallpox vaccine	1967	300 000	300 000	-	-	No vaccination in 1967 by SMP teams
	1968	797 200	443 000	354 200	230 335	100 000 doses sent to Conakry.
	1969*					We have 7% wastage factor
Measles vaccine	1967	60 000	60 000	-	-	No vaccination performed in 1967
	1968	128 000	24 800	104 300	47 178	40 000 doses sent to other programmes in Region. 16 750 unusable because of expiration date
	1969*	40 000				

* January and February only

6.2 Equipment:

Item	Number Supplied*	Number in Operation	Comment
Trucks	7	7	
Ped-o-Jets	26	20	Six in reserve
Refrigerators	4	-	Will be placed in service in 1969
Motorbikes	3	3	

* Since inception of the programme.

Has a warehouse with rotating inventory system for spare parts been established? Yes ☐ No ☒

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TABLEAU 1. DONNEES DEMOGRAPHIQUES PAR DIVISION GEOGRAPHIQUE
(Utiliser les divisions indiquées par les cartes)

TABLE 1. DEMOGRAPHIC DATA BY GEOGRAPHIC SUBDIVISION *
(Use Subdivisions as shown on Country Maps)

Division géographique Geographic Subdivisions	Population approximative en 1969 Est. 1969 Population	Superficie (en km^2) Area (Square kms)	Densité de population au km^2 Population density per square km
Grand Cape Mount	35 409	4 337	8.16
Loffa	144 709	20 439	7.08
Montserrado	204 570	5 337	38.33
Maryland	83 694	4 959	16.88
Grand Gedeh	53 082	14 246	3.73
Sinoe	59 597	11 980	4.97
Grand Bassa	141 155	12 793	11.03
Bong	173 405	11 991	14.46
Nimba	179 141	11 588	15.46
Total	1 074 762	97 670	11.00

* taken from 1962 census. Ten per cent have been added to the census figures to allow for population increase since 1962.

* D'après le recensement de 1962. On a ajouté 10% aux chiffres du recensement pour tenir compte de l'accroissement de la population depuis 1962.

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TABLEAU 2. CAS DE VARIOLE PAR MOIS ET PAR DIVISION GEOGRAPHIQUE (JUSQU'A FEVRIER 1969)
TABLE 2. SMALLPOX CASES BY MONTH AND GEOGRAPHIC SUBDIVISION (TO FEBRUARY 1969)

Division géographique / Geographic Subdivisions	Nombre de cas pas mois/Number of cases by month														
	1968													1969	
	J	F	M	A	M	J	J	A	S	O	N	D	Total	J	F
Semaines/Weeks	1-5	6-9	10-13	14-17	18-22	23-26	27-31	32-35	36-39	40-44	45-48	49-52		1-5	6-9
Grand Bassa		5											5		
Total		5											5		

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TABLEAU 3. CAS DE VARIOLE PAR AGE ET PAR SEXE
TABLE 3. SMALLPOX CASES BY AGE AND SEX

Mois / Month	Age								Age/Sexe inconnu / Unknown Age/Sex	Total
	0-4		5-14		15-44		45+			
	M	F	M	F	M	F	M	F		
J 1968										
F										
M										
A										
M										
J	DATA NOT AVAILABLE									
J	PAS DE RENSEIGNEMENTS									
A										
S										
O										
N										
D										
J 1969										
F										

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TABLEAU 4. VACCINATIONS ANTIVARIOLIQUES EFFECTUEES, PAR DIVISION GEOGRAPHIQUE
(Divisions indiquées par les cartes)

TABLE 4. SMALLPOX VACCINATIONS PERFORMED BY GEOGRAPHIC SUBDIVISIONS
(those shown on country maps)

Division géographique / Geographic Subdivisions	1967	1er trim. 1968 / First Quarter	2ème trim. 1968 / Second Quarter	3ème trim. 1968 / Third Quarter	4ème trim. 1968 / Fourth Quarter	J-F 1969	Total général* / Grand total*
Grand Cape Mt.			29 680				29 680
Loffa			24 341	70 336			94 677
Montserrado				21 305	85 213	-	106 518
Total			54 021	91 641	85 213		230 875

* Englobant le total depuis la mise en oeuvre du programme.

* Includes the total since the inception of the programme.

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TABLEAU 5. OBJECTIFS DE LA VACCINATION PAR DIVISION GEOGRAPHIQUE, DE JUILLET 1969 A JUIN 1970

TABLE 5. VACCINATION TARGETS BY GEOGRAPHIC SUBDIVISIONS* JULY 1969-JUNE 1970

Division géographique / Geographic Subdivisions	Nombre de vaccinations prévues/Number of vaccinations planned			
	1969		1970	
	Juillet-septembre / July-September	Octobre-décembre / October-December	Janvier-mars / January-March	Avril-juin / April-June
Bong	78 000			
Grand Bassa	52 715	70 285		
Nimba			164 000	
Grand Gedeh			10 833	54 165
Total	130 715	70 285	174 833	54 165

	Mar. - June 1969.		Mars - juin 1969
*Montserrado (remaining)	98 052	Montserrado (restent à vacciner)	98 052
Loffa (remaining)	50 032	Loffa (restent à vacciner)	50 032
Major cities	71 800	Grandes villes	71 800
Maryland Co.	83 694	Maryland Co.	83 694

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TABLEAU 6. CAS DE ROUGEOLE DECLARES DE JANVIER 1968 JUSQU'A FEVRIER 1969 COMPRIS
TABLE 6. REPORTED MEASLES CASES JANUARY 1968 (THROUGH FEBRUARY 1969)

Division géographique / Geographic Subdivisions	Nombre de cas par mois/Number of cases by month														
	1968													1969	
	J	F	M	A	M	J	J	A	S	O	N	D	Total	J	F
Semaines/Weeks	1-5	6-9	10-13	14-17	18-22	23-26	27-31	32-35	36-39	40-44	45-48	49-52		1-5	6-9
				DATA NOT AVAILABLE											
				PAS DE RENSEIGNEMENTS											
Total															

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TABLEAU 7. VACCINATIONS ANTIROUGEOLEUSES EFFECTUEES, PAR DIVISION GEOGRAPHIQUE
(Divisions indiquées par les cartes)

TABLE 7. MEASLES VACCINATIONS PERFORMED BY GEOGRAPHIC SUBDIVISIONS
(those shown on country maps)

Division géographique Geographic Subdivisions	1er trim. 1968 First Quarter	2ème trim. 1968 Second Quarter	3ème trim. 1968 Third Quarter	4ème trim. 1968 Fourth Quarter	Janvier-février 1969	Total général* Grand total*
Grand Cape Mount		6 130				6 130
Loffa		5 054	15 363			20 417
Montserrado			3 569	17 062	-	20 631
Total		11 184	18 932	17 062		47 178

* Englobant le total depuis la mise en oeuvre du programme.

* Includes the total since the inception of the programme.

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Figure 1
(1.4)

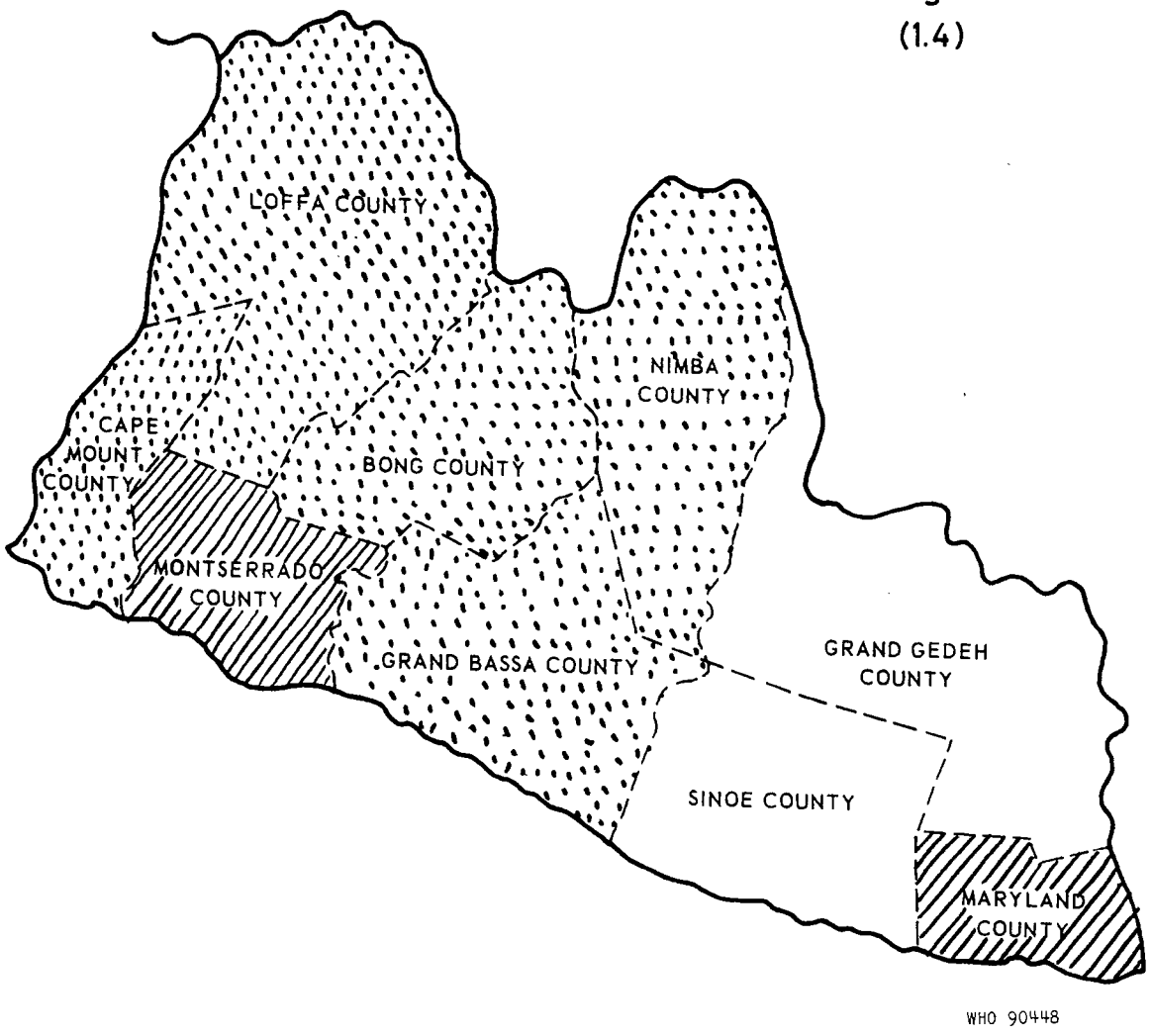

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Figure 4
(2.3)

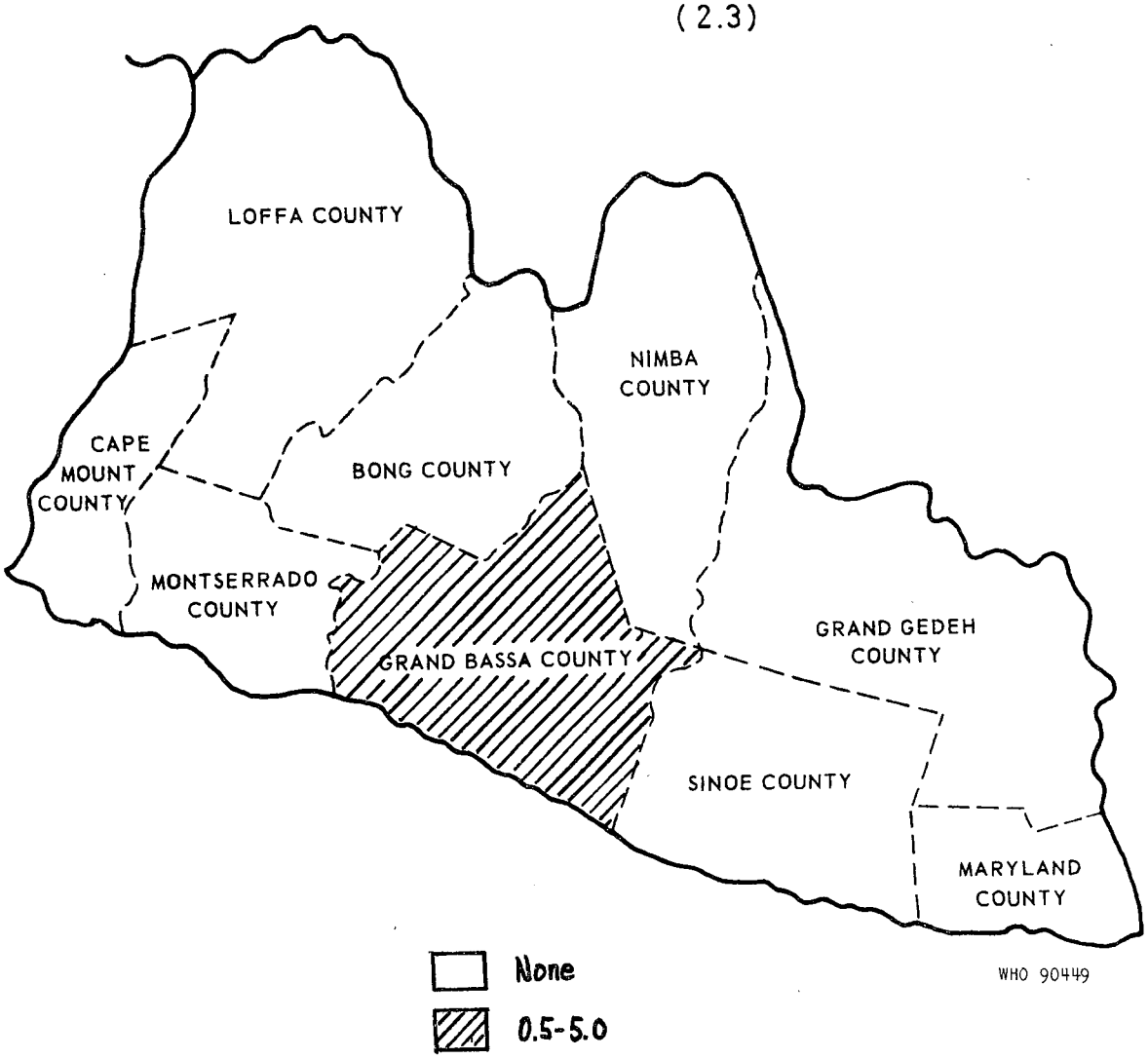

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Figure 9
(2.6)

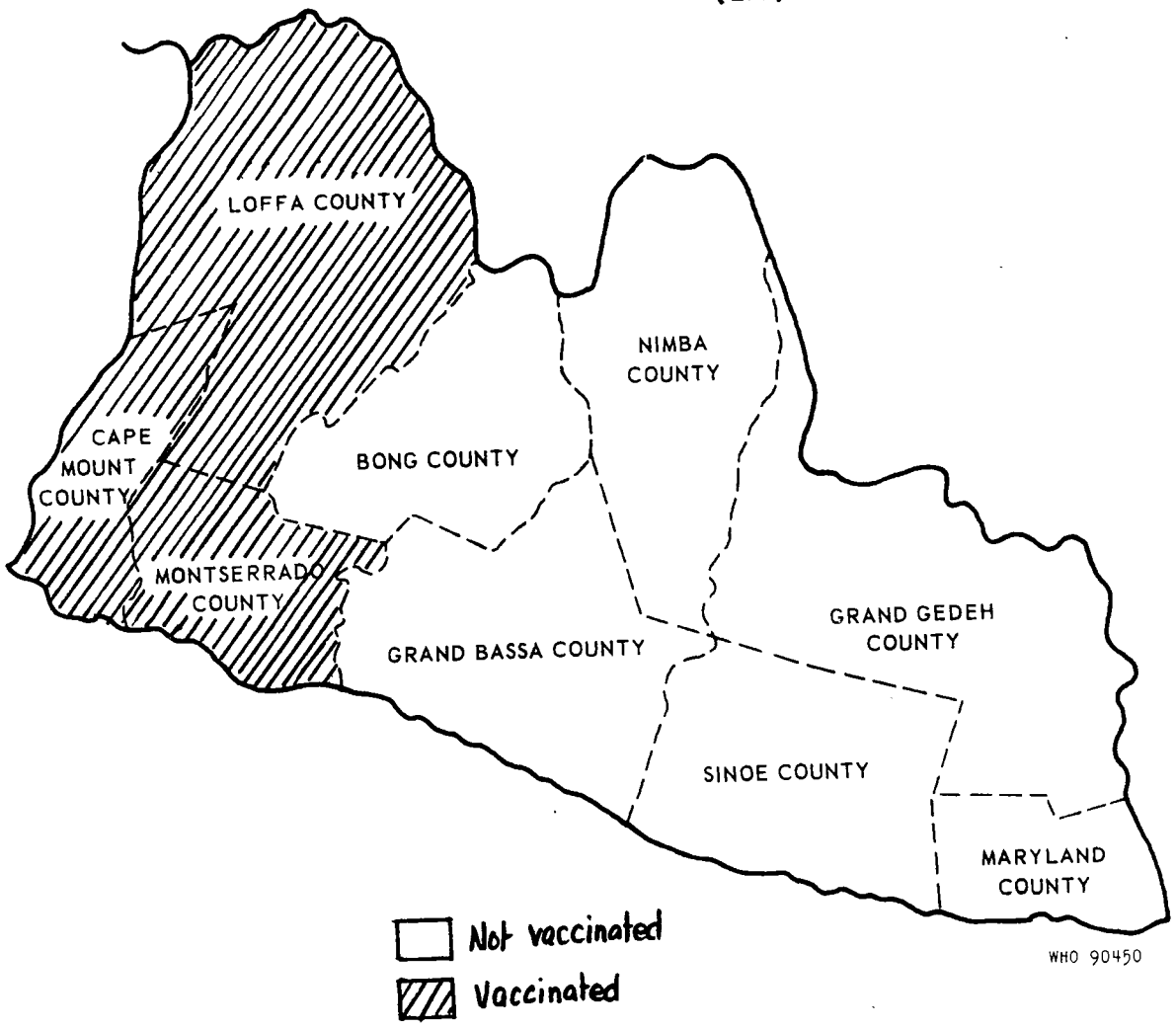

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Figure 10
(3.3)